

Fig. 1

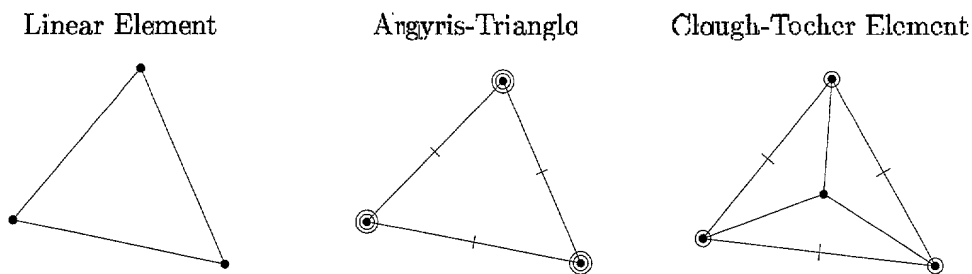
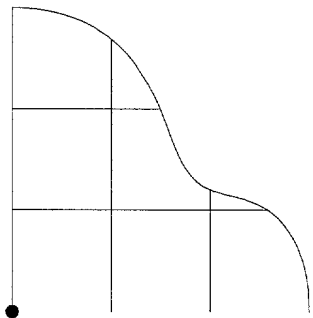


Fig. 2a
Prior Art

WEB-Spline



| Type | Dimension | Degree | Smoothness | Parameters |
|-----------------------|-----------|--------|------------|------------|
| linear element | d | 1 | 0 | $d + 1$ |
| Argyris triangle | 2 | 5 | 1 | 21 |
| Clough-Tocher element | 2 | 3 | 1 | 12 |
| WEB-Spline | d | n | $n - 1$ | 1 |

Fig. 2b

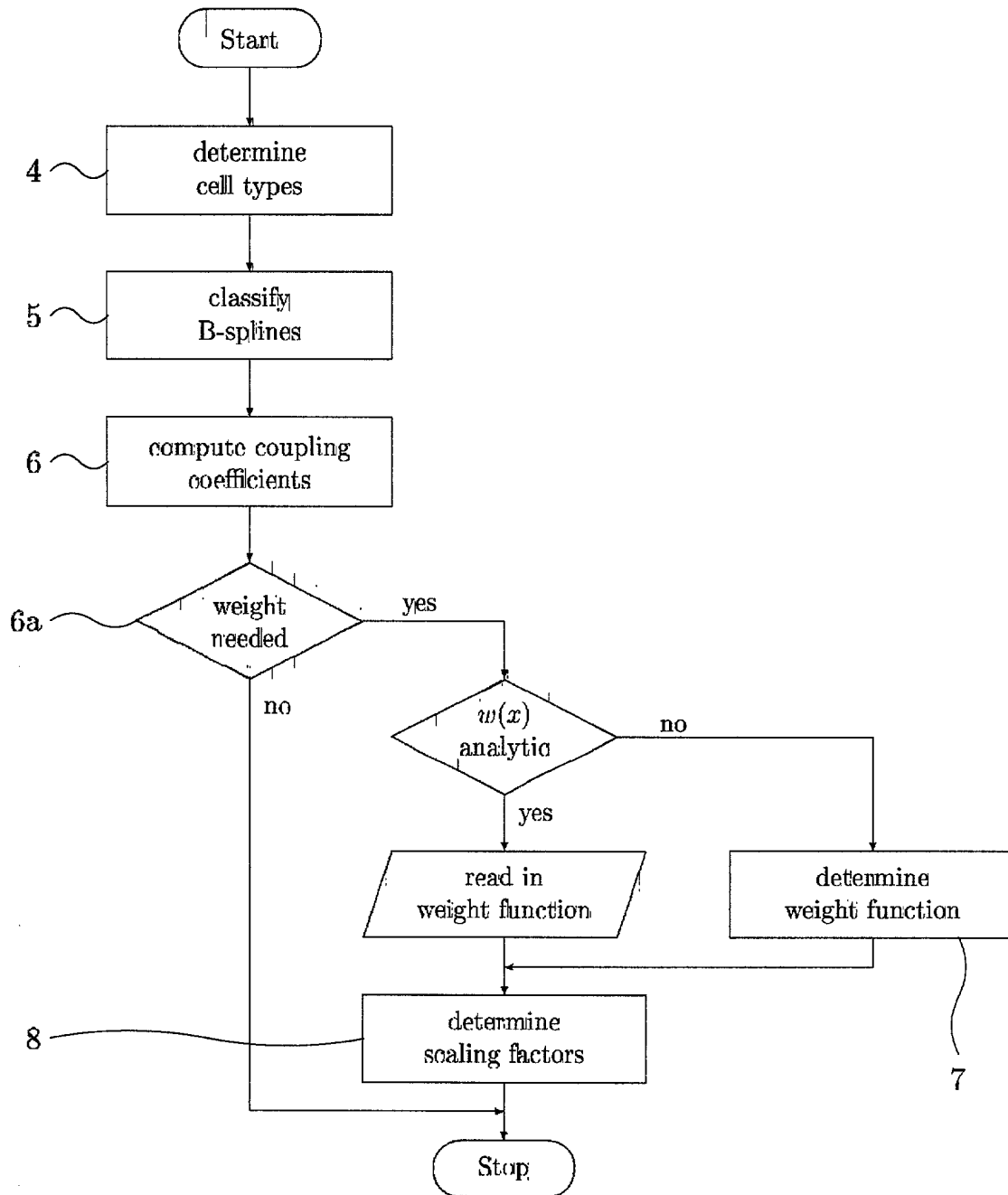


Fig. 3

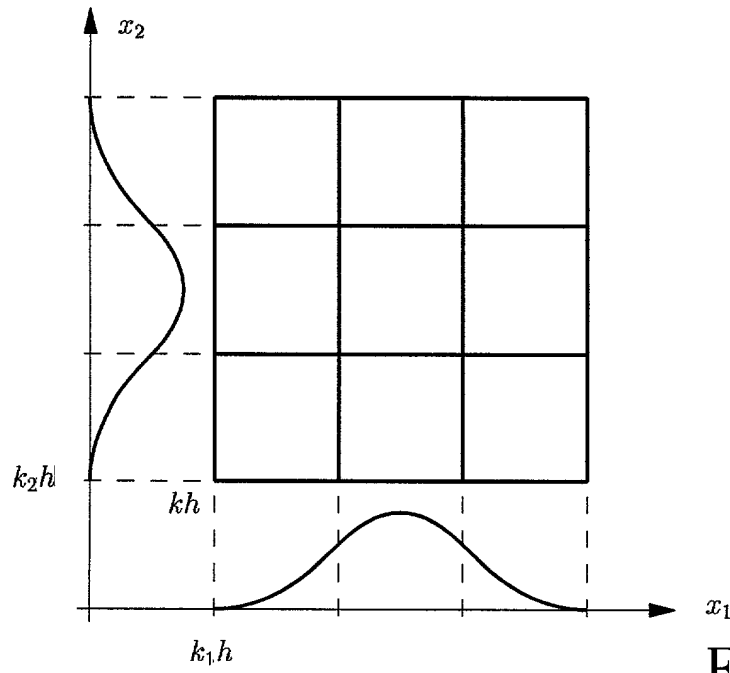


Fig. 4a

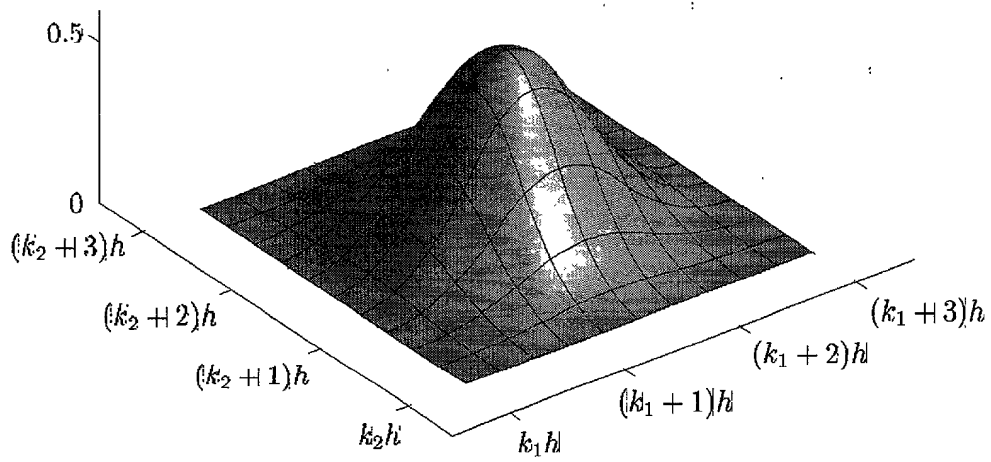


Fig. 4b

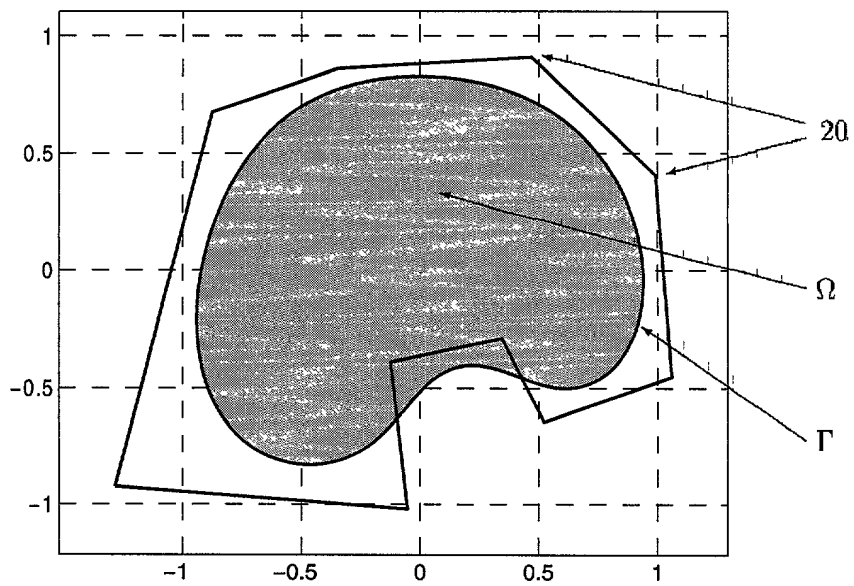


Fig. 5a

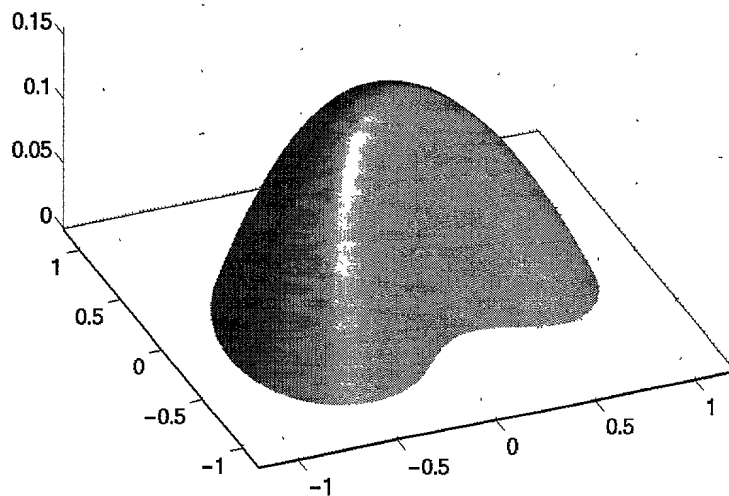


Fig. 5b

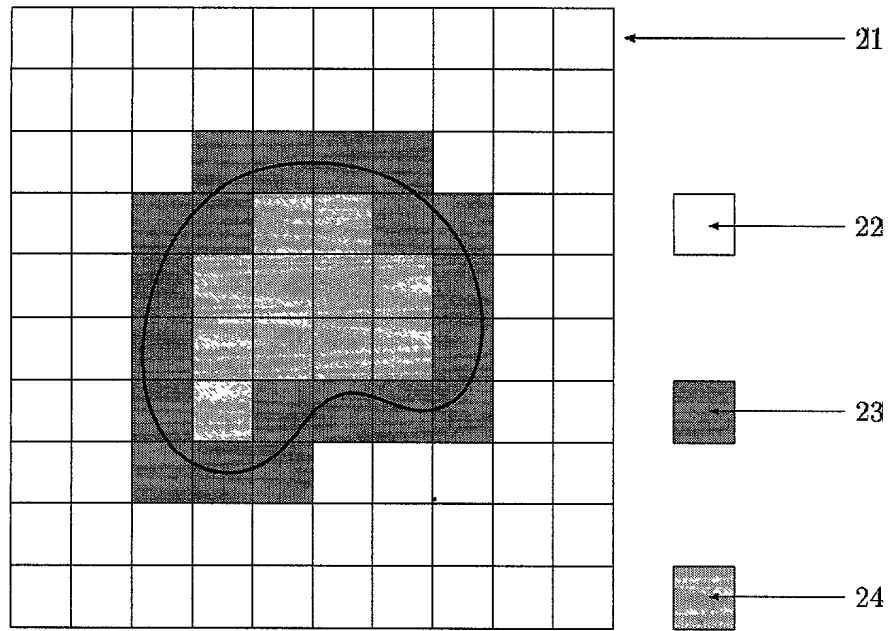


Fig. 6

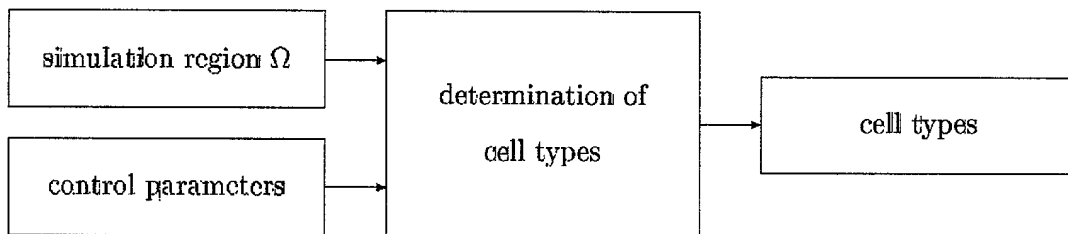


Fig. 7

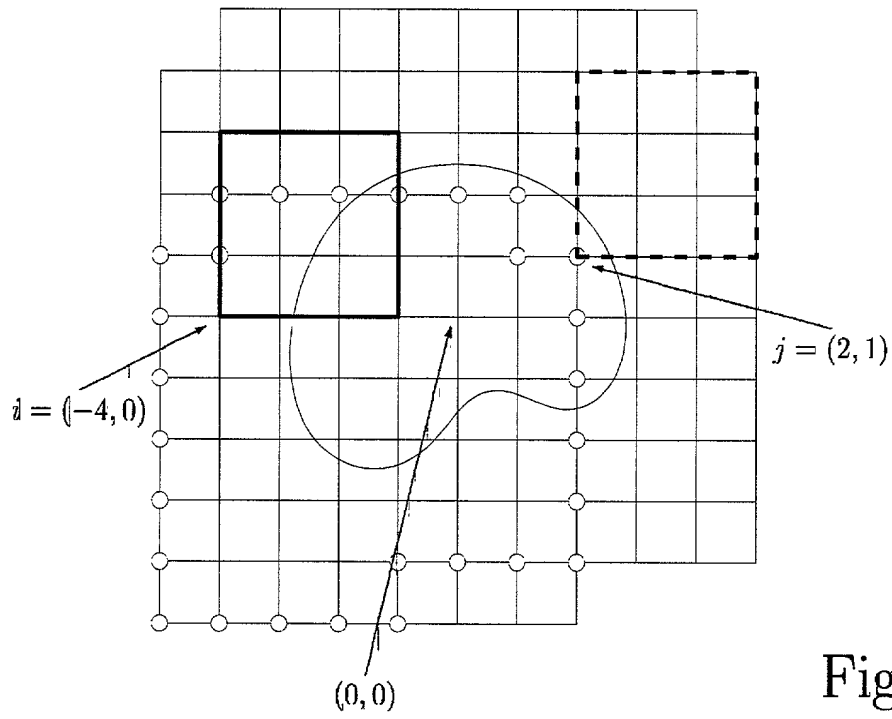


Fig. 8

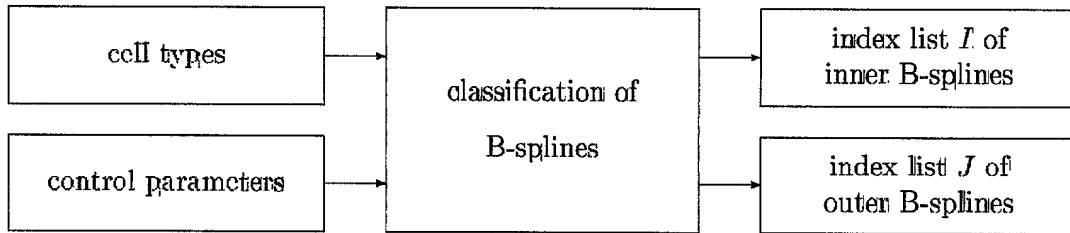


Fig. 9

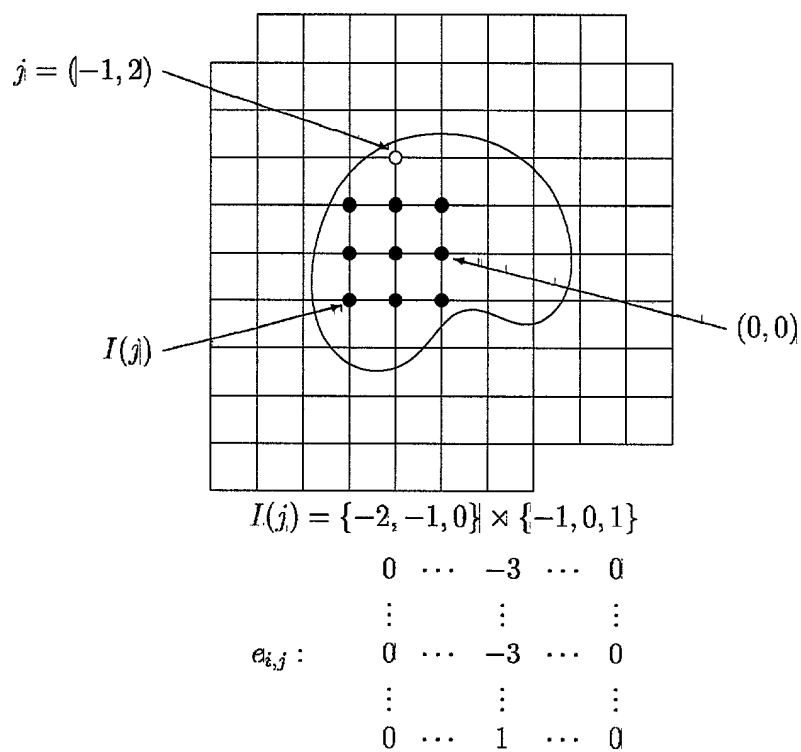


Fig. 10

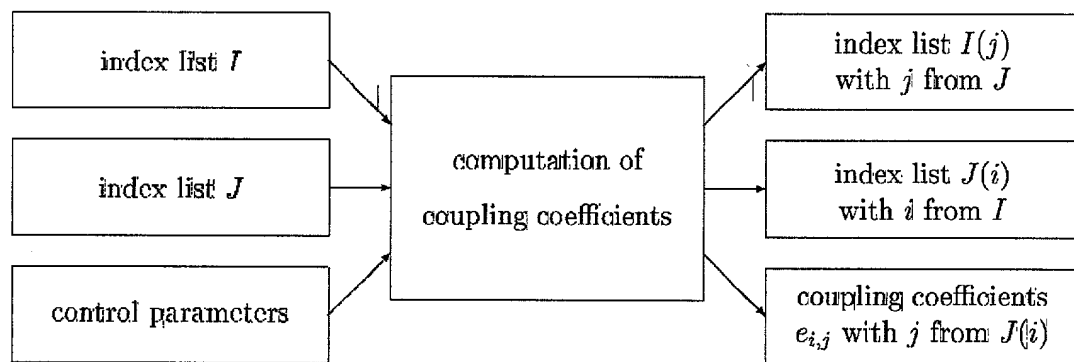


Fig. 11

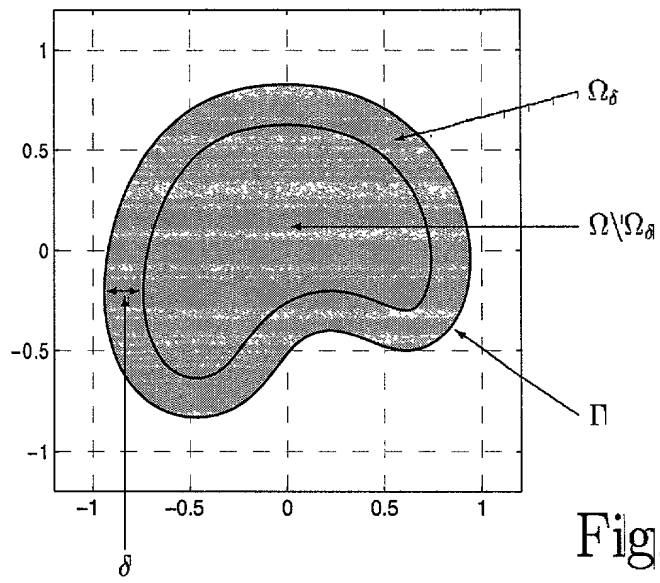


Fig. 12a

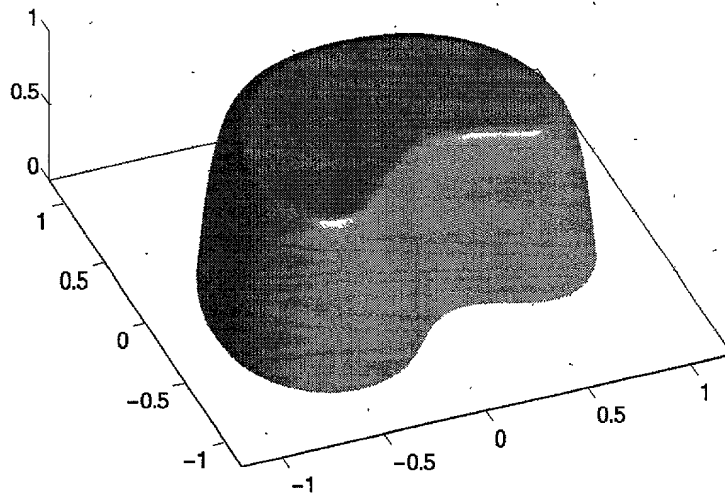
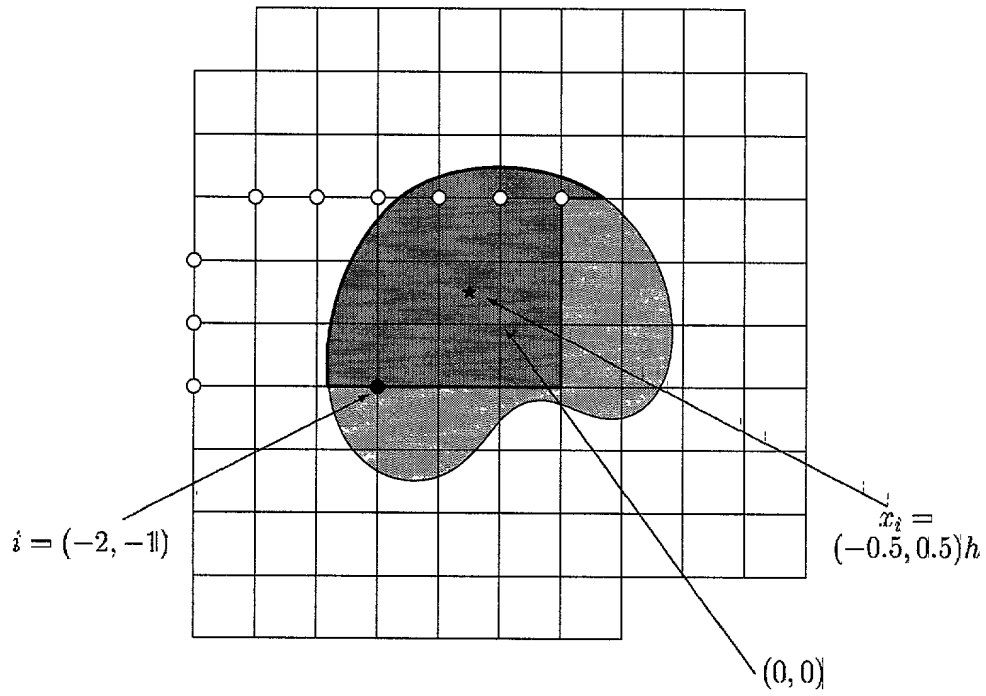


Fig. 12b



$$J(i) = \{(-5, -1), \dots, (-5, 1), (-4, 2), \dots, (1, 2)\}$$

$$a_{i,j} : \begin{matrix} \cdot & \cdots & -3 & \cdots & 0 & \cdots & 1 & \cdots & 0 & \cdots & 0 & \cdots & 1 \\ \vdots & & & & & & & & & & & & \\ -3 & & & & & & & & & & & & \\ \vdots & & & & & & & & & & & & \\ 0 & & & & & & & & & & & & \\ \vdots & & & & & & & & & & & & \\ 1 & & & & & & & & & & & & \end{matrix}$$

Fig. 13

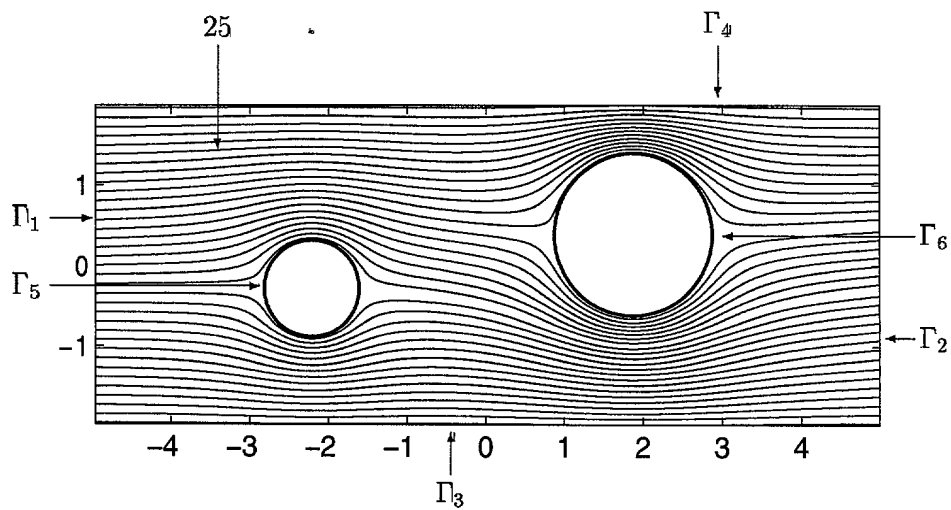


Fig. 14a

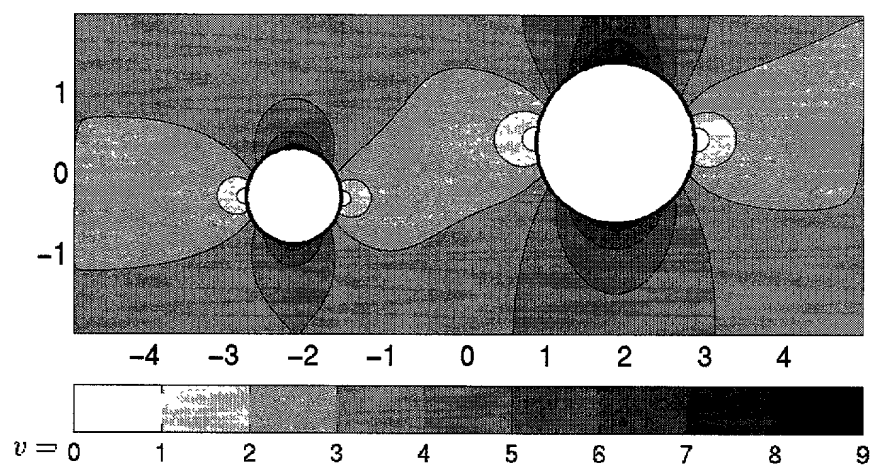


Fig. 14b

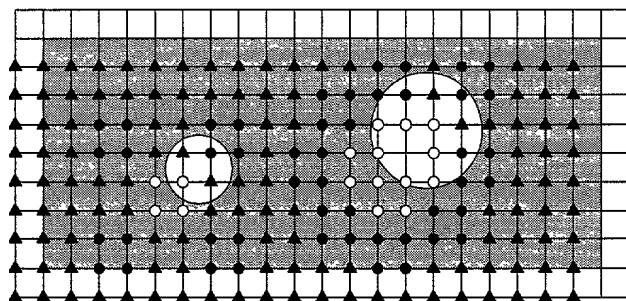


Fig. 15a

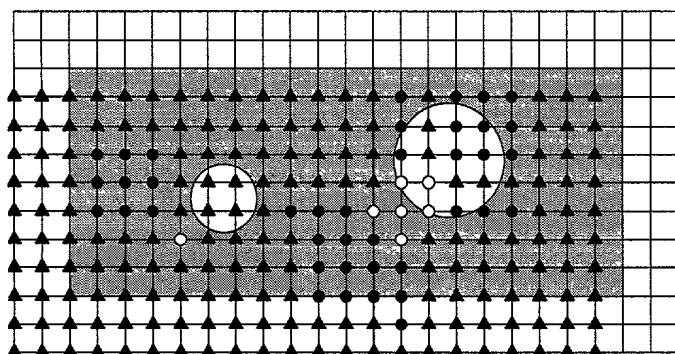


Fig. 15b

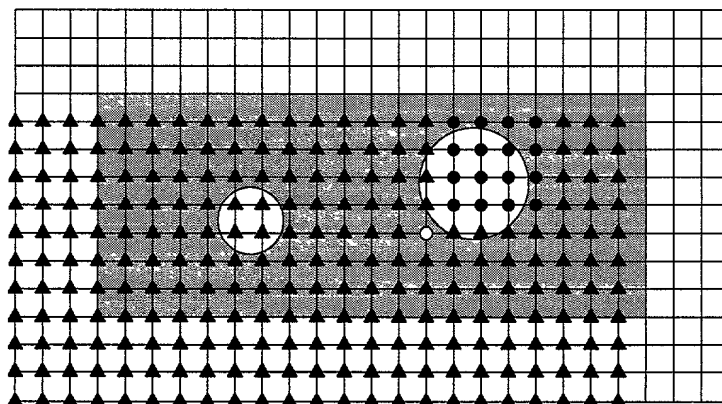


Fig. 15c

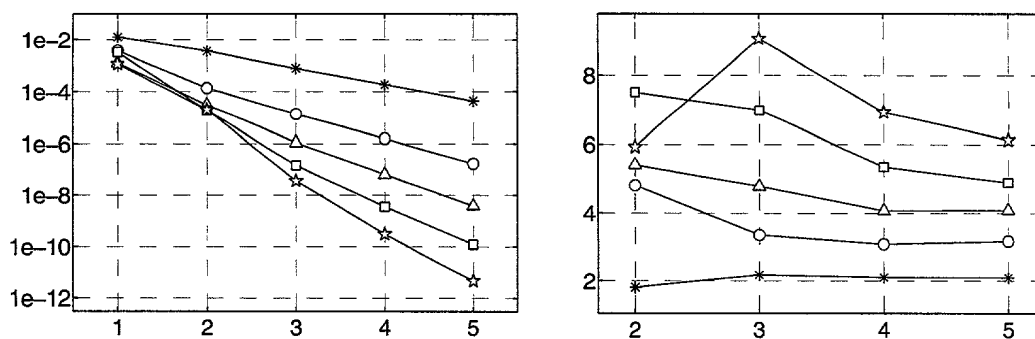


Fig. 16a

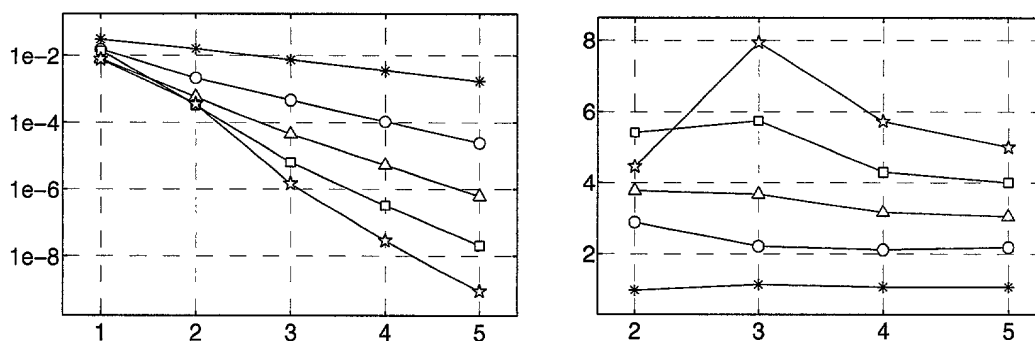


Fig. 16b

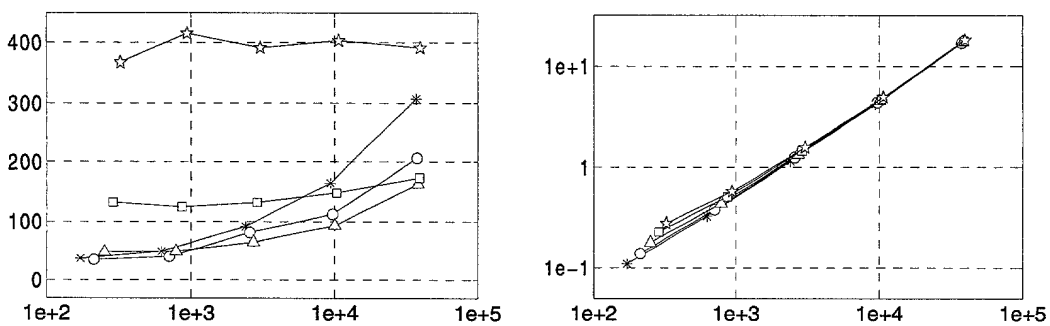


Fig. 16c

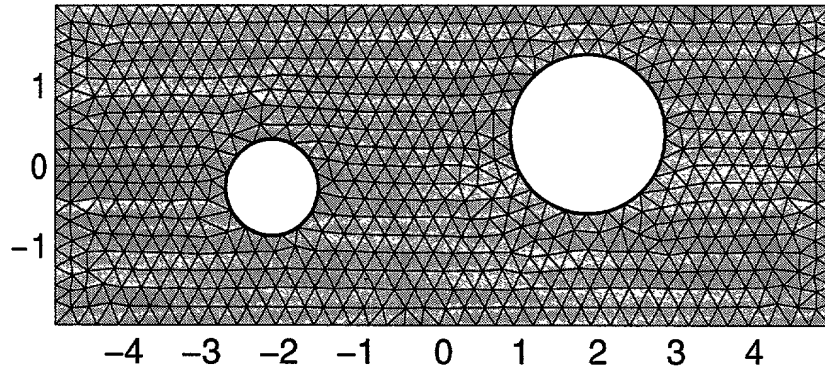


Fig. 17a

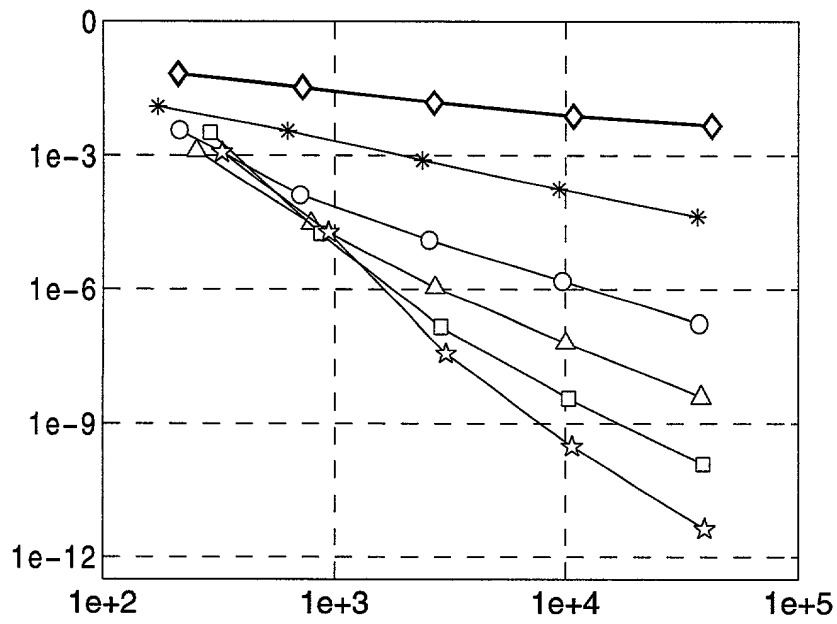


Fig. 17b

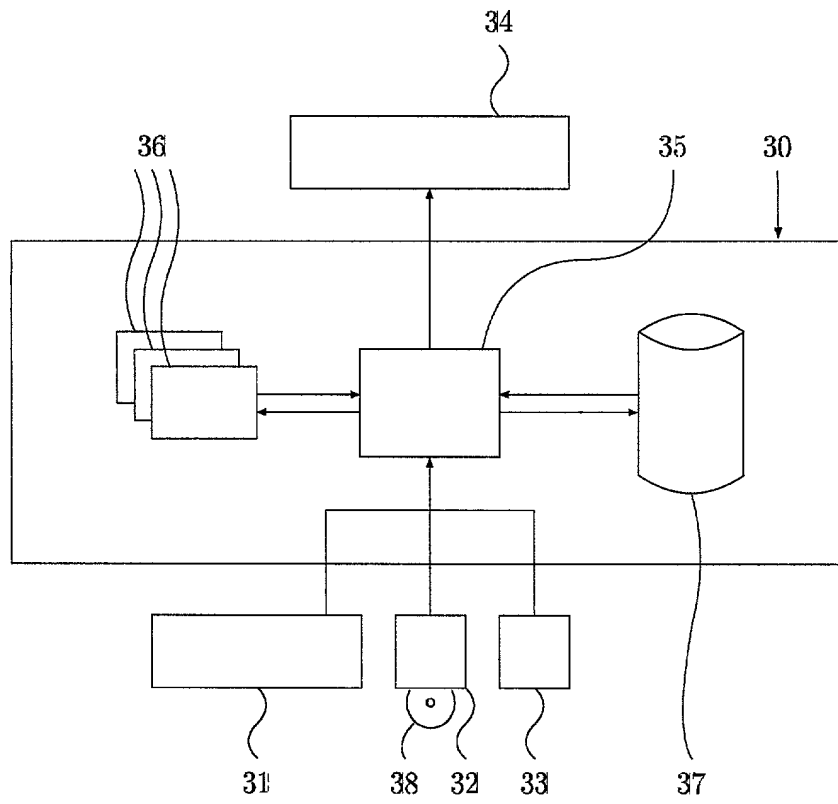


Fig. 18